MWDG-GSM

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WINE cap

WIRELESS
NETWORK FOR
ENERGY &
ENVIRONMENT
CUSTOM
APPLICATIONS

Capetti
ELETTRONICA
SINCE 1973

CE

www.capetti.it

System Components

GSM
Antenna

SIM

12/24V
+ -

WSN
Antenna
(ANT-EXT)

LED
Indicators

Capetti
W2sCap
MWDG-GSM

MWDG-GSM

Power Supply

WineCapKey

USB
Cable

SW WineCap
Manager
(SW-DCET)

GSM
Antenna

2

Service Center Connection

1. Insert a working SIM and configure the provider APN and related PIN using WineCapManager.
2. GSM green LED:

   1 flash/sec = searching

   1 flash/4sec = signal ok
3. connection Test = give to MWDG the command #4 using the WinecapKey. The CCS Status green LED lights up, at the end of the upload process it switches off
4. To verify on Service Center:

   WWW.WINECAP.IT **(valid account needed)**

Approach the WineCapKey here, wait 4 orange LED System flashes, then remove it

Terminal Block

J3

1

1   1   1

J10

J3	Vin + Serial
1	NC
2	MB A+
3	MB B-
4	GND
5	P.E.
6	GND
7	12/24 Vdc

J10	Battery Backup
1	BATT_12V
2	GND

Led Description

LED	
System	System indicator: slow flash=ok rapid flash=probe enrolling
Logger	Memory status
CCS	Service Center Connection: on = ongoing connection flashing= GSM signal test
GSM	GSM Communication rapid flash= signal searching slow flash= GSM network OK
WSN	Wireless Sensor Network Green=receiving measures Red= ongoing transmission

WineCap Manager

1. Launch Setup.exe in the folders WineCapManager and run the installation.
2. Run WineCapManager and select "Local Connection".
3. Wait for the MWDG recognition
4. Create a new database, insert a databese name and press "open".
5. Insert the license file available on CD, menu Basestation/Insert license
6. Wait for the automatic synchronization of the sensor list and status from MWDG to PC.
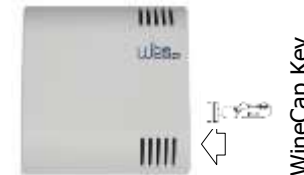
USB Driver

1. Connect to PC using USB cable.
2. Access to Control Panel/Device Manager and click on MWDG device.
3. Install USB driver manually located on CD. File "MWDG_CDC.inf"
4. Click on "continue" when requested
5. Note for WIN8.1: in case of malfunctions look at the manual "Win8.x Installare Drivers USB R01.pdf" located on CD.
6. At the end of the installation process, a new COM por twill be installed: "WineCap MWDG (CDC)"
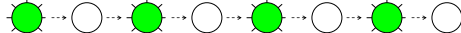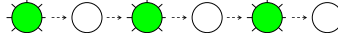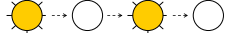
Start Sensors

1. Connect the MWDG as shown
2. Power on the MWDG and verify the "System"Led: green flashing
3. Activate the probe
   a. Approach the WineCapKey
   b. Wait for 2 flashes (test)
   c. Remove the Key

Temperature Probe WSD00T

WineCap Key

4. Verify the LED:

LED FLASHES		RADIO SIGNAL QUALITY
🟢 ⚪ 🟢 ⚪ 🟢 ⚪ 🟢 ⚪ 🟢 ⚪	5 green flashes	Excellent
🟢 ⚪ 🟢 ⚪ 🟢 ⚪ 🟢 ⚪	4 green flashes	Good
🟢 ⚪ 🟢 ⚪ 🟢 ⚪	3 green flashes	Fair
🟠 ⚪ 🟠 ⚪	2 amber flashes	Sufficient
🔴 ⚪	1 red flash	Insufficient
🔴🔴 ⚪	1 red flash, 2 seconds long	Out of range – network search

How To Install

guide lines to follow during the system installation process

1. Position at the intended location and power on the MWDG
   a. If possible, choose a central position among to the wireless plant
   b. Avoid metal obstructions and reinforced concrete structures
   c. Verify the GSM signal WSN and GSM antennas distance must be >50cm

2. Move the probe in the selected location
   a. verify the quality of radio signal: important: small movements can help
   b. outdoor probes must be placed upward and north oriented to avoid tampering

3. Adding routers to extend the radio signal
   a. Couple a router to the system and write down the assigned address
   b. Position the router upward among obstacles and people
   c. Select a "strategic" point among the plant

4. Using the WD04T tester probe
   a. Couple the probe to the system
   b. Activated the test, the probe displays the percentage of the radio signal level
   c. Declares the radio reference in a specific point: router address or zero for MWDG

Manual: Refer to "WINECAP User Manual.pdf" located on CD for further instructions regarding the network and the installation process.